## INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2005/000387

#### CLASSIFICATION OF SUBJECT MATTER

### IPC7 C23C 4/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions since 1975

Korean Utility models and applictions for Utility models since 1975

Japanese Utility models and application for Utility models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) KIPONET

C.	DOCUN	MENTS	CONSIDERED	то	BE	RELEVANT
Cat	egory*	C	itation of documer	nt wi	ith in	dication where

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05302414 A (ANATOLY NIKIFOROVICH PAPYRIN) 12 Apr. 1994 See the whole document	1, 4, 8, 9, 12, 15
A	JP 09-296264 A (NAKABOOTEC: KK) 18 Nov. 1997 See the whole document	1, 2, 9, 12, 15
A	WO 02061177 A (SIEMENS WESTINGHOUSE POWER CORPORATION) 8 Aug. 2002 See the whole document	1, 4, 8, 9, 12, 15

L	Further	documents	are listed	in the con	tinuation of	Box C.
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See patent family annex.

- Special categories of cited documents:
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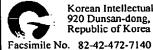
Date of the actual completion of the international search

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# INTERNATIONAL SEARCH REPORT

information on patent family members

International application No. PCT/KR2005/000387

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 05302414 A	12.04.1994	DE69016433C0 DE69016433T2 EP484533A1 EP484533A4 EP484533B1 US5302414A US5302414B1 W09119016A1	09.03.1995 20.07.1995 13.05.1992 07.10.1992 25.01.1995 12.04.1994 25.02.1997 12.12.1991
JP 09-296264 A	18.11.1997	JP309018782 JP9296264A2	18.11.1997 18.09.2000 18.11.1997
WO 02061177 A2	08.08.2002	US06444259 US20020102360A1 US2002102360A1 US2002102360AA US2004202885A1 US2004202885AA US6444259BA W02002061177A2	03.09.2002 01.08.2002 01.08.2002 01.08.2002 14.10.2004 14.10.2004 03.09.2002 08.08.2002 31.12.2003